| Index of Claims | Application No.   | Applicant(s)  MANBER ET AL. |  |  |  |  |  |
|-----------------|-------------------|-----------------------------|--|--|--|--|--|
|                 | 10/750,166        |                             |  |  |  |  |  |
|                 | Examiner          | Art Unit                    |  |  |  |  |  |
|                 | Gregory M. Desire | 2624                        |  |  |  |  |  |

Non-Elected

**Appeal** 

(Through numeral) Cancelled

Rejected

|  |            | = Allowed  |          |                  |               | 4              | + Restricted |               |              |          |          | <u> </u> | Interference |           |           |          |             | 0          |  | Objected   |          |                 |   |         |              |                 |               |          |
|--|------------|--|----------|------------------|---------------|----------------|--------------|---------------|--------------|----------|----------|----------|--------------|-----------|-----------|----------|-------------|------------|--|------------|----------|-----------------|---|---------|--------------|-----------------|---------------|----------|
| Cla  | Claim Date |  |          |                  |               | 7::::          | Claim        |               |              | Date     |          |          | ١::::        | CI        | aim       | Date     |             |            |  |            | ٦        |                 |   |         |              |                 |               |          |
| Final  | Original   | 8/20/02  |          |                  |               |                |              |               | Final        | Original |          |          |              | Julio     |           |          |             |            | Final  | Original   |          |                 |   |         |              |                 |               |          |
|  | 1          | =  |          |                  |               | $\perp$        | $\perp$      |               |              | 51       |          | 土        |              |           |           |          | 士           |            |  | 101        |          |                 | $\perp$   | ᆂ       |              |                 | 土             | ╛        |
|  | 2          | =  |          |                  | $\bot \bot$   | _              | 1            | _             |              | 52       |          |          | $\sqcup$     | _         | 4         | 4        |             | <b>⅃</b> ‱ |  | 102        | Ш        | $\perp$         |   | 1       |              | Ш               |               | ┙        |
|  | 3          | =  |          |                  | 11            | _              | $\perp$      | _             |              | 53       | _        |          | $\sqcup$     | _         | _         | _        |             | _          |  | 103        | L        | $\perp$         |   | ┸       | ╄-           | Ш               | $\dashv$      | ┙        |
| ldash  | 4          | =  |          | <b> </b>         | $\bot\bot$    | _              | 4.           | 4             |              | 54       |          |          | $\sqcup$     | _         | _         | 4        | _ _         | 4          |  | 104        | _        | _               | 4   | 4       | 1            | $\vdash$        | +             | 4        |
|  | 5          | =  |          | $\vdash$         | ++            | $\dashv$       | -            | 4             |              | 55       | _        | -        | Н            |           | -         | _        | +           | 4          |  | 105        | Ш        | $\vdash$        | +   | +       | ╄            | $\vdash$        | +             | 4        |
|  | 6<br>7     | =  | 1        | 1-1-             | ++            | -              |              | -             | _            | 56<br>57 |          | +-       | $\vdash$     | -         | -         | -        | -           | -{         |  | 106<br>107 |          | $\vdash$        | +   | +       | -            | $\vdash$        | +             | ᅱ        |
|  | 8          | =  | +        | -                | +             | $\dashv$       | ╁            | -             |              | 58       | -        | +-       | $\vdash$     | $\dashv$  | -         | $\dashv$ |             | -          |  | 108        | Н        | $\vdash$        | +   | ╁       | +            | $\vdash$        | +             | ┨        |
|  | 9          | =  | +        | +-+              | ++            | +              | +            | -             | -            | 59       | $\dashv$ | +        | $\vdash$     | $\dashv$  | ┪         | $\dashv$ |             | -          |  | 109        | H        | $\vdash$        | +   | ╁       | +-           | $\vdash$        | +             | ┨        |
|  | 10         | =  | +        | $\vdash$         | ++            | +              | ╅            | -             |              | 60       | -        |          | $\vdash$     | _         | ┪         | $\dashv$ | $\dashv$    | ١!!!       | $\vdash$   | 110        | $\vdash$ | $\vdash$        | +   | +       | +-           | $\vdash$        | +             | ٦        |
|  | 11         | =  |          |                  | ++            | ╅              | +-           | -             | $\vdash$     | 61       | $\dashv$ | +-       | $\vdash$     | $\dashv$  | ┪         | $\dashv$ | _           | ١          |  | 111        | H        | $\vdash$        | +   | +       | 1            | $\vdash$        | +             | ┨        |
|  | 12         | 1  |          |                  | ++            | +              | ╅╴           | -             |              | 62       | $\dashv$ | 1        | $\Box$       | _         | 寸         | $\dashv$ | $\dashv$    | <b>∃</b> ‱ | <b></b>  | 112        |          | H               | $\top$  | $\top$  | 1            |                 | 十             | ヿ゙       |
|  | 13         | 1  | $\dashv$ |                  | 11            | 十              | 十            | 788           |              | 63       | $\neg$   | 1        | Ħ            |           | 7         |          |             | 7          |  | 113        |          | П               | $\top$  | T       |              | П               | 十             | ヿ        |
|  | 14         | 1  |          |                  |               | $\top$         | T            | 7             |              | 64       |          | 1        | П            |           | 寸         | $\dashv$ | $\top$      | 7          |  | 114        |          |                 | $\neg$  | 1       | _            | П               | $\top$        | ヿ゙       |
|  | 15         | 1  |          |                  | $\top$        | $\neg$         | $\top$       | 7             | _            | 65       | Ť        |          | П            |           | 寸         | $\neg$   |             | 7          |  | 115        |          |                 | $\neg$  | ┪       | Τ            | П               |               | ٦        |
|  | 16         | 1  |          |                  |               | 1              | Т            | 7             |              | 66       |          |          |              |           | $\neg$    |          | $\neg \top$ | 7          |  | 116        |          |                 |   | Τ       | Ι.           |                 |               | ┒        |
|  | 17         | 1  |          |                  |               |                | T            | ]             |              | 67       |          |          |              |           |           |          |             | ]          |  | 117        |          |                 |   |         |              |                 |               | ╝        |
|  | 18         | =  |          |                  |               |                |              |               |              | 68       |          |          |              |           |           |          |             |            |  | 118        |          |                 |   |         | L            | Ш               |               | ╝        |
|  | 19         | =  |          |                  |               |                | $\perp$      | _             |              | 69       |          |          | Ш            |           |           |          |             | _          |  | 119        |          | Ш               | _   |         | ╄-           | Ш               |               | ┙        |
|  | 20         | =  |          |                  |               |                | $\perp$      | _             |              | 70       |          |          | Ш            |           |           | $\perp$  |             | _          |  | 120        |          |                 |   |         | ↓_           | Ш               | ightharpoonup | ╛        |
|  | 21         | 1  |          |                  | $\perp \perp$ |                |              | _             |              | 71       | $\perp$  | $\perp$  | Ш            |           | _         | $\dashv$ |             | _          | L  | 121        |          |                 |   | _       | 1_           | Ш               | $\dashv$      | ↲        |
|  | 22         | 1  |          | $\bot\bot$       | $\perp \perp$ | _              | _            | 4             |              | 72       | $\perp$  | _        | $\sqcup$     | _         | _         | $\dashv$ |             | 4          | ļ  | 122        | _        | <b>.</b>        | _   | 4       | -            | Ш               | -             | ᅬ        |
|  | 23         | 1  |          | $\vdash$         | ++            | 4              | 4            | -             |              | 73       | $\vdash$ | -        |              | $\dashv$  | -         | $\dashv$ | -           | - ::::     |  | 123        | -        | $\vdash$        | +   | +       | +-           | ╀╌┤             |               | 4        |
|  | 24         | 1  |          | $\vdash$         | +             | 4              | -            | -             | <u> </u>     | 74       | +        | +-       | $\vdash$     | $\dashv$  | -         | $\dashv$ |             |            |  | 124        | -        |                 | +   | +       | +            | ├-┤             | -             | $\dashv$ |
|  | 25         | 1  | +        | $\vdash$         | ++            | +              | +            | -             |              | 75<br>76 | -        | +        | $\vdash$     |           |           | +        | +           | -          |  | 125<br>126 |          | $\vdash$        |   | ╁       | ╁            | Н               | -             | $\dashv$ |
| <u> </u>   | 26<br>27   | 1  | -        | $\vdash$         | ++            | +              | +            | -             |              | 77       | $\vdash$ |          | $\vdash$     | $\dashv$  | +         | $\dashv$ | -           | -          | <u> </u>   | 127        | H        | $\vdash$        | +   | +       | +            | $\vdash$        | -+            | ᅥ        |
|  | 28         | 1  | _        | +                | ++            | +              | +            | -             |              | 78       | -        | +        | $\vdash$     | ᅱ         | -         | $\dashv$ |             | -          |  | 128        | $\vdash$ | $\vdash$        | ╅   | ╁       | ╁            | H               | +             | ┨        |
|  | 29         | <del>                                     </del> | _        | $\vdash$         | +             | +              | ╁            | -             |              | 79       | +        | +        | -            |           | +         | 十        | +-          | ┨          | <del>                                     </del> | 129        |          | $\vdash$        |   | +-      | +            | Н               |               | ┨        |
|  | 30         | Н  |          | +                | ++            | +              | +            | <b>∃</b> !!!! |              | 80       | +        | +        | $\vdash$     | $\dashv$  |           | -+       | +           | ١          |  | 130        |          | $\vdash$        | +   | +       | +            | $\vdash$        | $\dashv$      | ┨        |
|  | 31         | H  |          | $\vdash$         | ++            | 十              | +            | 7!!!!         |              | 81       | -        | 1        | П            | $\exists$ |           | _        |             | ١!!!       |  | 131        |          | $\vdash$        | $\top$  | $\top$  | +            | П               | $\neg$        | ┪        |
|  | 32         |  |          | $\Box$           | 11            | $\top$         | Ť            | ,             |              | 82       |          | 1        | П            | 一         | _         | $\neg$   | ╅           | 7          |  | 132        |          |                 | $\top$  | $\top$  | $\top$       | П               |               | ٦        |
|  | 33         | П  |          |                  | 7 1           | T              | $\top$       | 7             |              | 83       |          |          | П            |           |           | $\neg$   |             | 7          |  | 133        |          |                 | T   |         | T            |                 |               | ٦        |
|  | 34         |  |          |                  |               | $\Box$         |              |               |              | 84       |          |          |              |           |           |          |             | ]          |  | 134        |          |                 |   |         | Ι.           | $\Box$          |               | ┚        |
|  | 35         |  |          |                  |               |                |              |               |              | 85       |          |          |              |           |           |          |             | _          |  | 135        |          |                 |   | 1       |              | Ш               |               | ╝        |
|  | 36         |  |          | $\perp \perp$    | $\perp \perp$ | _ _            | Ц.           | _             |              | 86       |          | _ _      | Ш            | _         | _         | _        |             | _          |  | 136        | Ш        | Ш               |   |         | <del> </del> | Ш               |               | 4        |
|  | 37         | L  |          | $\perp \perp$    |               |                | $\bot$       | _             |              | 87       |          |          | $\sqcup$     | _         | _         | _        | $\perp$     | 4          |  | 137        |          | $\sqcup$        |   | 4       |              | Ш               | $\dashv$      | 4        |
|  | 38         | _  |          | <b>↓</b> ↓       | $\perp$       | 4              | _            | _             |              | 88       | $\perp$  | -        | $\vdash$     | _         | _         | 4        | _           | 4          |  | 138        |          | $\vdash \vdash$ | -   | 4       | _            | $\vdash$        | +             | 4        |
|  | 39         |  |          | <del></del>      | +             | _              | -            | -             |              | 89       | $\perp$  | 4        | Ш            |           | _         | $\dashv$ |             |            |  | 139        | H        | $\vdash$        | +   | - -     | -            | $\vdash \vdash$ | +             | 4        |
|  | 40         | Щ  |          | ₩.               | +             | +              | +            | -             | <u> </u>     | 90       | $\vdash$ | +        | $\vdash$     | $\dashv$  |           | $\dashv$ | +           | -          | <u> </u>   | 140        | H        | $\vdash$        | +   | +-      | +-           | $\vdash \vdash$ | +             | $\dashv$ |
|  | 41         |  |          | <del>  </del> -  | ++            | +              | +            | -             |              | 91<br>92 | +        | +        | $\vdash$     |           | -         | $\dashv$ | -           | -          | -  | 141        | H        | $\vdash$        | +   | +-      | ┿            | Н               | -             | ┨        |
| <u> </u>   | 42<br>43   | $\vdash$   | +        | ++               | ++            | $\dashv$       | +            | -             | <del> </del> | 93       | +        | +        | $\vdash$     | $\dashv$  | $\dashv$  | $\dashv$ | +           | -          | <u> </u>   | 142<br>143 | ╁        | -+              | +   | +       | +            | $\vdash \vdash$ | +             | $\dashv$ |
|  | 43         | $\vdash$   | +        | +                | ++            | +              | +            | -             | <del> </del> | 94       | +        | +        | $\vdash$     | $\dashv$  | ᆉ         | $\dashv$ | +           | -          | <del>                                     </del> | 144        | $\vdash$ | $\vdash$        | +   | +       | +            | $\vdash \vdash$ | +             | ᅥ        |
| <del>                                     </del> | 45         | Н  | +        | ++               | ++            | +              | +            | -             | <del> </del> | 95       | +        | +        | $\vdash$     | $\dashv$  | +         | $\dashv$ | +           | ۱          | <b>-</b> -                                       | 145        |          | +               | +   | +       | T            | $\vdash \vdash$ |               | ۲        |
| <del>                                     </del> | 46         | H  | +-       | +                | ++            | +              | +            |               |              | 96       | 十        | +        | $\vdash$     |           | 7         | $\dashv$ | +           | 1          |  | 146        |          | $\vdash$        | +   | +       | +            | Н               | -             | ٦        |
| $\vdash$   | 47         | М  | 十        | <del>     </del> | 11            | $\top$         | $\top$       | 71111         |              | 97       |          | 1        | $\Box$       |           | $\exists$ | $\dashv$ |             | 7          |  | 147        |          | $\sqcap$        | $\top$  | $\top$  | ✝            | П               | $\dashv$      | ٦        |
|  | 48         | П  |          | $\sqcap$         | 77            | $\neg$         | T            |               |              | 98       | $\neg$   | $\top$   |              |           |           | ╛        |             |            |  | 148        |          |                 |   |         | I            |                 |               | J        |
|  | 49         |  |          | $\Box \bot$      |               |                |              |               |              | 99       |          | 1        |              |           |           |          |             |            |  | 149        |          |                 | $oldsymbol{ol}}}}}}}}}}}}}}}$ | $\perp$ |              |                 |               |          |
|  | 50         |  |          |                  |               | $oxed{\Gamma}$ | $oxed{\Box}$ |               |              | 100      |          |          |              |           |           | $\Box$   |             |            |  | 150        |          |                 |   |         |              | oxdot           |               |          |